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The Influences of Smoking and Nicotine on Circulation in the Lower Limb.

The proposed work is designed to assess the influences of smoking and of nicotine on circulation in the human leg and in the dog leg. Parameters to be assessed will be skin temperature, arterial and venous blood gases, arteriovenous anastomotic blood flow, and arteriovenous oxygen differences, muscle blood flow, and skin blood flow. Human subjects will smoke cigarettes or receive a nicotine injection. Animal experiments will be done, using fractions of cigarette smoke or nicotine injections.

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